

# **Key Benefits**

- Autonomous base station
- Amarisoft radio software
- Intel / AMD / ARM CPU
- 2 x 1 W MIMO TDD or FDD
- 3GPP Release 16/17
- B28/38/39/41/42/43/48
- N28/38/39/41/48/77/78/79
- Other bands on demand
- 170 x 102 x 240 mm
- 2.4 kg and 32 W
- 1 Gbps PoE
- Open Source OSS/BSS
- Open Source PaaS
- Open Source CDN
- Open Source PLC
- Instant messaging
- PTT / video streaming
- Tactical edge / BMS
- IEC 61131-3
- OPC-UA TSN
- Plug-and-play
- Self-configuring
- Self-healing
- Global delivery
- 3-year managed service
- 1-year warranty

Building block for costefficient SimpleRAN infrastructure.

# **Rapid.Space Open Radio Station**

### Rapid.Space Open Radio Station (ORS) - compact 4G/5G base station

Rapid.Space ORS speeds up deployment of 4G/5G private and public networks.



## **Autonomous operation**

The ORS runs as autonomous base station (RU, BBU, core, PTT, instant messaging and video streaming in a single enclosure), ideal for private converged networks, defense or rescue missions.

# **Network densification**

Rapid.Space ORS runs as managed RU and BBU connected to an existing core network (S1/NG) - perfect for densification of existing 4G/5G networks.

# Single cable

Rapid.Space ORS uses a single Power Over Ethernet (PoE) cable for power supply and TCP/IP backhaul. It supports synchronisation over GPS.

## Globally available

Rapid.Space ORS can be shipped worldwide and includes EU certification (CE). Certificates for the USA (FCC), China or Japan are possible on demand.

## Open source tactical edge

Powered by Ubuntu GNU/Linux, SlapOS OSS/BSS, Galene PTT, Delta.Chat messaging, Theia PaaS, haproxy CDN and Beremiz PLC. All open source.

### Cloud management, scalability, mass deployment etc.

By default, ORS configuration is provided from our cloud-based OSS/BSS. You can easily deploy hundreds of ORS and thousands of UE. Scalability is no issue.

#### Local cloud infrastructure

For sensitive applications, it is possible to deploy the OSS/BSS locally. You can then manage multiple ORS without any connection to an external network.

#### Simultaneous UE connections

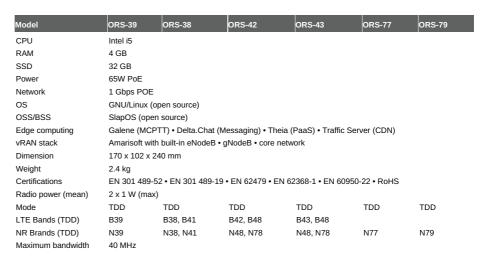
In 5G mode, ORS can support more than 512 active UEs on AMD CPU, hundreds on Intel CPU and dozens on ARM CPU with simultaneous traffic.

#### Step-by-step ORS documentation (open source)

Fully documented configuration and customisation is ideal to explore 4G/5G vRAN applications, optimise performance, develop new services or do research.

# Modular design

Rapid.Space ORS hardware uses a modular design which supports four standard frequencies (38/39/42/43/77/78/79) and other frequencies on demand (1/2/3/4/5/7/8/10/12/13/20/25/26/28/30/40/41/46/48/49).



#### **Amarisoft license**

The ORS includes the Amarisoft 4G/5G stack licence so there is no extra cost.

# "Zero-Knowledge" security

No credentials are shared between the ORS and Rapid.Space - ideal for sensitive applications that require full reversibility and offline operation.

### No cloud option

ORS "SDK" model includes root access and configuration of Amarisoft without cloud. ORS "barebone" model is delivered without software, RAM nor SSD.



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